

Funding Your Retirement System

Education and Local Government

Interim Committee

March 22, 2012

Addressing TRS' Shortfall



Montana Teachers' Retirement System

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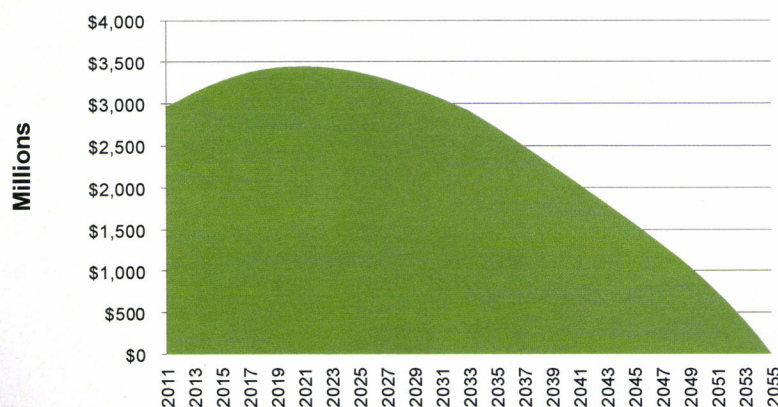
As of July 1, 2011, TRS has a \$1.8 billion unfunded liability.

Current statutory contribution rates already fund two-thirds of that liability, leaving a shortfall of about \$633 million.

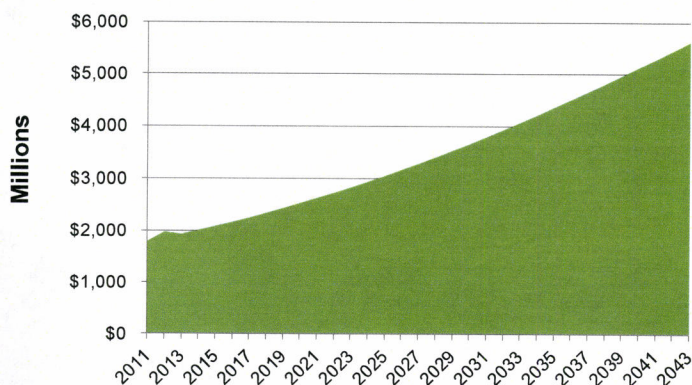
Based on the 2011 actuarial valuation, this represents a 3.53% gap between current contribution rates and being actuarially funded over 30-years. In short, TRS needs additional funding of approximately \$30 million a year, or smaller adjustments over the next few years.

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Projected TRS Assets (with current contribution rates)



Projected TRS Unfunded Liability



What Can We Do?

Prudent, relatively small changes now can avert the need for more drastic measures later.

What other states have done:

Raising revenues

- Increase contribution rates
- Tap new funding sources

Reducing benefits

- For current members
- For new hires

We need a combination — a package everyone can live with.

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Changes can be Adaptive and Phased in Equitably

Set triggers to adjust contribution and/or benefit rates
up and down

- Responsive to investment returns
- Prevent slipping back into a hole

Apply some changes only to new hires and those in the
early years of their careers

- Avoid harming retirees and those nearing retirement

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Contract Rights Can a Contract Be Changed?

Contracts are not absolute.

The courts commonly apply a three-part test in contract
rights cases:

1. Is there a contract? Is there an impairment of the contract?
2. Is the impairment substantial?
3. Is the impairment reasonable and necessary and justified by an important public purpose?

Estimated Effects of Selected Changes

(Effects are not additive)

Benefit Change (Contract Right Issues)	Existing Plan (3.53% shortfall)	Change to:	Reduces 3.53% Shortfall By:
Raise Employee Contribution Rate	7.15%	7.65% (+0.5%) Or 8.15% (+1.0%)	0.37% 0.81%
Raise Employer Contribution Rate	7.47%	8.47% (+1.0%)	1.0%
Raise State General Fund Rate	2.49%	3.49% (+1.0%)	1.0%
Raise Average Final Compensation	3 years	5 years	0.91%
Reduce Multiplier	1.667%	1.50%	2.17%
Reduce Guaranteed Annual Benefit Adjustment	1.50%	1.25%	0.39%
Raise Vesting	5 years	10 years	0.10%
Raise Early Retirement	Age 50 & 5 yrs	Age 55 & 5 yrs	0.05%
Raise Regular Retirement	Age 60 w/5 yrs, or 25 yrs	Age 60 w/5 yrs, or 30 yrs Or Age 65 w/5 yrs, or 30 yrs	0.87% 1.94%

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Defined Contribution?

Closing the Defined Benefit (DB) plan and moving to a Defined Contribution (DC) 401(k)-style plan could make the situation worse.

It would:

- Do nothing to pay down the unfunded liability
- Increase total costs to the state (taxpayers)
- Reduce retirement security for members
- Impair recruitment and retention of the best career-minded people

Employer contribution rate could increase to 62.8% of current members' salaries (February 18, 2011, TRS actuarial analysis)

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Possible Changes to New Hires

Other states are adjusting contribution and benefit rates and modifying other plan elements for new hires. This is easier than making changes that would affect the contract rights of current members.

Changes to new hires can make the system more cost-efficient over time. But relatively few new hires enter TRS each year, usually at the lower end of the pay scale. Small numbers mean a small initial impact on the system. Changes to new hires alone are not enough to pay down the unfunded liability before TRS runs out of money.

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Changes for New Hires

- Increase contribution rates
- Raise Average Final Compensation
- End 25-year retirement at any age
- Raise normal retirement age
- Raise early retirement age

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Hybrid/Cash Balance Options

Defined Benefit/Defined Contribution Hybrid

- Minimal DB plan (e.g., 1.0% multiplier and 5-year AFC, plus:
 - Employee contribution to DC, with a small employer match
 - Member responsible for DC investing

Cash Balance Plan

- Career accumulated account balances
- Guaranteed rate of return (e.g., 4% to 9%)
- No loss of principal, assets are professionally managed
- Annuity at retirement

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Summary

The TRS fund can be righted with prudent, incremental, and relatively small adjustments.

The 3.53% shortfall can be made up through a combination of contribution rate increases, benefit reductions, changes to plan elements, and new funding sources.

The sooner we make these adjustments, the better the outcome will be for everyone—teachers, retirees, employers, and taxpayers.

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We Want to Hear from YOU!

Call us or send an email or letter:

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Take our survey at www.surveymonkey.com/s/R82MJSQ



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CONSULTING, LLC

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February 18, 2011

Mr. David L. Senn
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Teachers' Retirement System
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Defined Contribution Plan Proposals

Dear Dave:

At your request, we are writing to describe the actuarial impact of potential legislation to place all new hires in defined contribution (DC) plan will have on the Montana Teachers' Retirement System (TRS).

BACKGROUND

The current TRS plan is an Internal Revenue Code (IRC) qualified defined benefit (DB) plan. A DB plan provides a guaranteed lifetime benefit at retirement based on a formula that reflects salary history and service with a covered employer. In contrast, a DC plan does not provide for a guaranteed lifetime benefit. A DC plan is funded by employer (and possibly employee) contributions. These contributions accumulate with actual investment earnings, and the participant's annual retirement income is whatever the accumulated assets can provide over the retiree's lifetime.

In general, DB plans do a better job of providing retirement income whereas DC plans are better at creating retirement savings. Because of the 2008-2009 market downturn, the current approach in the public sector is to consider *replacing* a DB plan with a DC plan. However, there are compelling funding reasons to view them as complementary vehicles that should be offered together.

The ultimate goal of any retirement program is to provide adequate retirement benefits to career employees when they reach normal retirement age. DB plans are the superior vehicle for achieving this goal, as they provide lifetime benefits, and do so in a more cost-effective manner - for any level of employer contribution, a DB plan will provide a greater benefit to a retiree than will the same employer contribution to a DC plan. This is demonstrated on the following page.

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Mr. David L. Senn
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For all pension plans, whether defined benefit or defined contribution, the basic retirement funding equation is:

$$C + I = B + E$$

Where:

- C = employer and member contributions
- I = investment income
- B = benefits paid
- E = expenses paid from the fund, if any.

The underlying message is that dollars in have to equal dollars out. When comparing a DB plan and a DC plan with identical employer contributions ("C"), if investment income ("I") and expenses ("E") are the same, then the *total* benefits ("B") paid from the plans must be equal. However, DC plans are designed to allow members terminating from service prior to retirement to withdraw their account balances which include employer contributions. By contrast when a member terminates prior to retirement under a DB plan with no right to a vested benefit, the employer contributions remain in the system.

Therefore, under a DC plan the benefit paid to a member who terminates prior to retirement is higher than under a DB plan. As a result, a DB plan retains a higher proportion of overall contributions as system assets when members terminate and withdraw prior to retirement; and a decision to move from a DB plan to a pure DC plan will provide lower benefits to employees who serve the citizens of the State for their career, and higher benefits for those employees who terminate after a short period of service in the State.

CURRENT DB/DC ENVIRONMENT

The DB/DC debate has been going on in the public sector for more than a decade. In that time, a number of states have created DC plans for some or all of their employees, including Alaska, Colorado, Florida, Michigan and South Carolina. Others, such as Georgia, Indiana, Oregon and Washington created combined DB/DC plans. Ohio established both a standalone DC plan and a DB/DC combination plan.

A few states, such as Michigan and Washington, offered a choice between the current DB plan and the new DC plan to only existing members. However, the most common approach taken by these states was to offer a choice to both existing members and new hires. Some, like Florida and Ohio, went so far as to allow members to change their elections at specified times in the future.



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The experience of the States that offered a choice between a DB plan and a DC plan indicates employees much prefer the DB plan. As well, some states with DC plans have studied the benefits being provided to their members and the employer contribution level, and have concluded that the DC plans are not meeting their retirement goals and are too costly to the employer. Nebraska switched members of the State Employees Retirement System and the County Employees Retirement System from a DC plan to a DB plan. West Virginia recently did the same for participants in the Teachers Retirement System.

ISSUES AFFECTING TRS

In considering whether to establish a DC plan for Montana TRS, there are a number of issues to keep in mind. Foremost is that the current pension benefits may be contractual obligations of the State and may be protected by statute as well as the state constitution. As a result, it may not be possible to cut back or eliminate retirement benefits for existing members. Typically, as is the case with the proposed legislation, changes would only apply to new hires. The current unfunded liabilities for TRS will remain unchanged.

Since new hires will not be joining the current DB plan, the payroll base of the DB plan will begin to decline immediately, so less money will be available to pay down the unfunded liabilities (UAL). Since that base is used to fund the Systems' unfunded accrued liabilities (UAL), the financial burden as a percent of payroll will increase. This will be compounded by Governmental Accounting Standards Board requirements under Statements 25 and 27 to change the payroll growth assumption in financing the UAL to a 5% declining payroll methodology. The impact of this change is in Column A of the attached chart.

The System's stated funding policy is to amortize the unfunded liability over a 30 year period. If TRS were closed to new entrants, as a result of this legislation, we would recommend shortening the amortization period to match the future remaining working lifetime of the active members with the intent of completely amortizing the UAL by the time the last active member retires from the System. On this basis we recommend an 11 year closed amortization period. The impact of this change is in Column B of the attached chart.

The final thing to consider is that the cash flow of TRS would become progressively more and more negative throughout future years. The effect is due to a greater reduction in contributions in future years relative to the reduction in the amount of future benefit payments. Most all mature, ongoing DB plans experience negative cash flow. However, the degree of negative cash flow is usually limited due to new hires replacing those retiring and maintaining a stable flow of incoming contributions. A concern with negative cash flow is that when the degree of negative cash flow exceeds income attributable to interest and dividends earned on the invested assets, assets must be sold to satisfy the need the cash, further reducing the investment return of the System. If legislation to move all new hires to a DC plan were to pass, we recommend close monitoring of cash flow to maintain the alignment of the investment strategy with the short and

Attachment A

All Dollar Values are in Millions



	(A) Decreasing Payroll Amortization	(B) Decreasing Payroll Amortization Over the Future Working Lifetime	(C) Long Term Impact Reflecting 4.50% Assumed Rate of Return
Present Value of Future Benefits	July 1, 2010 Valuation \$ 5,115.9	\$ 5,115.9	\$ 8,440.5
Present Value of Future Normal Cost	(597.7)	(597.7)	(1,783.1)
Actuarial Accrued Liability	\$ 4,518.2	\$ 4,518.2	\$ 6,657.4
Actuarial Value of Assets	2,956.6	2,956.6	2,956.6
Unfunded Actuarial Accrued Liability (UAAL)	\$ 1,561.6	\$ 1,561.6	\$ 3,700.8
Total Normal Cost Rate	9.74%	9.74%	22.04%
Employee Contribution Rate	7.15%	7.15%	7.15%
Employer Normal Rate	2.59%	2.59%	14.89%
Employer Statutory Contribution Rate			
Normal Rate	2.59%		
UAAL Amortization Rate	7.37%		
Total Rate	9.96%		
Amortization Period (Years)	49.5		
Actuarially Determined Contribution Rate			
Normal Rate	2.59%	2.59%	14.89%
UAAL Amortization Rate	9.57%	31.21%	47.91%
Total Rate	12.16%	33.80%	62.80%
Amortization Period (Years)	30	11	11
Annual Payroll Growth/(Decrease) Assumption	4.5%	(5.0%)	(5.0%)



Montana Teachers' Retirement System

Summary of TRS Outreach Efforts as of March 2012

To date, TRS has conducted outreach presentations in person or by video conference to groups in Billings, Bozeman, Glendive, Great Falls, Helena, Kalispell, Lame Deer, Poplar, and Troy. We've met with teachers, school administrators, retirees, union representatives, and a number of legislators. We've distributed *TRS Horizons* newsletters to 33,000 active TRS members and retirees and posted outreach information on our web site. Also, we're receiving input through an online survey. The combined effort has generated a stream of written and emailed responses from individuals. Sample size to date is small and not representative.

The most common response we've heard so far is "We can live with some changes if we all share in lifting the load." For example, many people say they support the idea of increasing contributions to the fund if the load is fairly divided among members, employers, and the state. Most also say they could live with raising the age members become eligible for regular retirement as long as it doesn't apply to those now nearing retirement.

We're also seeing fairly uniform opposition to reducing either the 1.5% Guaranteed Annual Benefit Adjustment (GABA) or the multiplier (1.667% of salary) for calculating retirement benefits. People noted that these rates have long been at the low end of the scale compared to other pension systems. Further reductions, they say, would harm teacher recruitment and retention.

Some people hope better investment returns will whittle away at the unfunded liability, although they frown on moving to a higher-risk portfolio. A

common suggestion is to earmark Montana Lottery revenues for TRS. Others say the state should simply bite the bullet and raise employer and state general fund contributions to provide the amount needed to put TRS back on actuarially sound footing—about \$28 to \$30 million a year. In response, we've explained that, even if that were possible, by itself such a move doesn't fully stabilize the fund over the long term. The reality is that some modest structural changes are needed to better align TRS with current demographic and economic trends. For example, people are living longer, in some cases drawing retirement benefits for more years than they were employed. Raising the eligible age for early and regular retirement to match longevity trends, and requiring 30 years of service instead of the current 25, would help stabilize TRS assets and prevent a relapse to where we stand today.

Looking Ahead

Further outreach presentations are in the works, as is the next *TRS Horizons* newsletter. We're also producing a series of one-page briefs explaining how TRS is funded, exploring the effects on TRS if reforms enacted in other states were applied here, and comparing the pros and cons of Defined Benefit and Defined Contribution pension plans.

Our hope is to reach as many people as time and budget constraints allow. We aim to raise awareness, build understanding on the issues, and gather input and insights on how to address TRS' current \$633 million shortfall. The information gathered will help us develop proposed legislation to return the fund to actuarial soundness based on reasonable, broadly supported measures—a package everyone can live with.

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Visit the TRS Outreach Web Page

[Funding TRS in 2013](#)

What's New:

[Stabilizing the TRS Fund: Exploring the Alternatives](#)

[Funding Your Retirement System - Addressing TRS' Shortfall](#)

Resources:

[In Defense of Defined-Benefit Pensions](#) - Feb. 2012

[Public Pension Reforms in Other States](#) - Dec. 2011

[State Hybrid Retirement Plans](#) - Nov. 2011

[2011 Analysis on Closing Current TRS Pension Plans](#) - Feb. 2011

Newsletters:

[TRS Horizons - Vol. 1, No. 1 2012](#)

[TRS Horizons - Fall 2011](#)

Surveys:

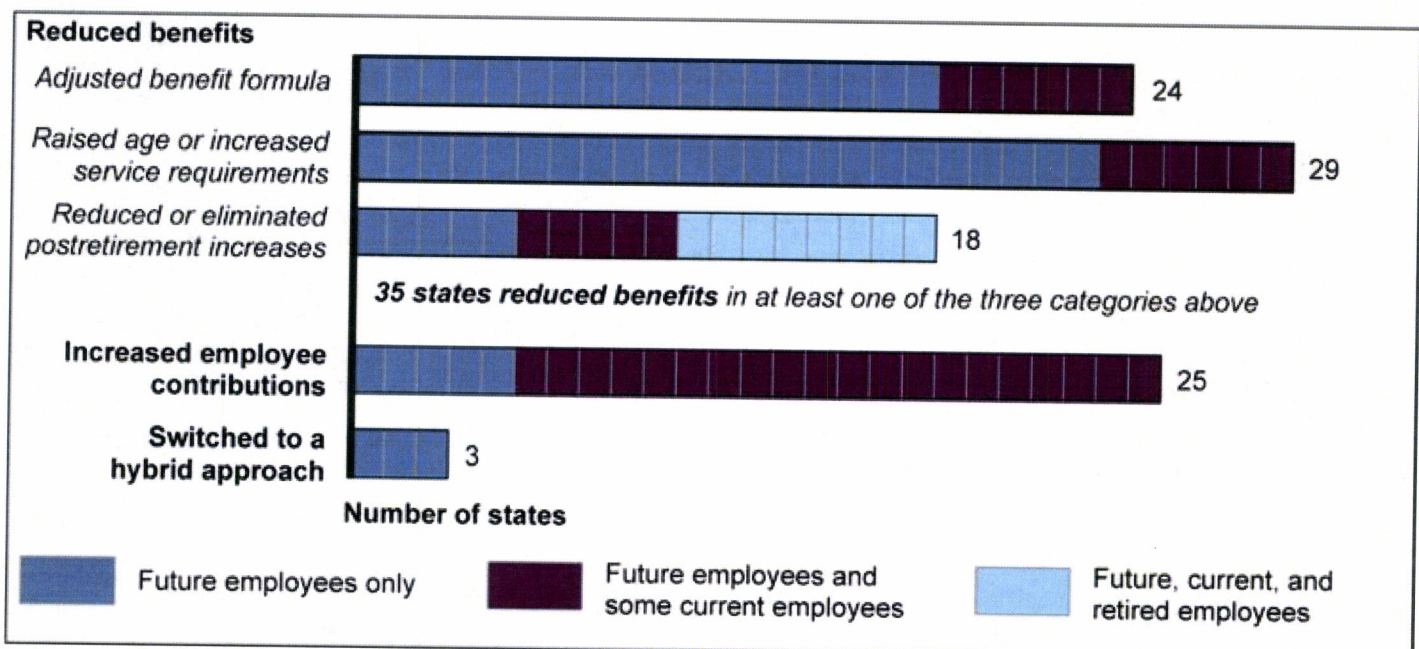
[Funding Montana TRS - take our quick online survey](#)



GAO Reports: Changes to State-Sponsored Pension Plans (January 2008 to June 2011)

Despite the recent economic downturn, most large state and local government pension plans have assets sufficient to cover benefit payments to retirees for a decade or more. However, pension plans still face challenges over the long term due to the gap between assets and liabilities. In the past, some plan sponsors have not made adequate plan contributions or have granted unfunded benefit increases, and many suffered from investment losses during the economic downturn. The resulting gap between asset values and projected liabilities has led to steady increases in the actuarially required contribution levels needed to help sustain pension plans at the same time state and local governments face other fiscal pressures.

Since 2008, the combination of fiscal pressures and increasing contribution requirements has spurred many states and localities to take action to strengthen the financial condition of their plans for the long term, often packaging multiple changes together. GAO's tabulation of recent state legislative changes reported by NCSL and review of reforms in selected sites revealed the following chart. (*U.S. Government Accountability Office, March 2012*)



Source: GAO analysis of annual NCSL reports.